

**Galintel®**

# RETAINING WALL POST

Installation Guide



The Galintel® brand  
is proudly owned by



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# Galintel®

## THE TRUSTED NAME IN HOT-DIP GALVANISED STEEL BUILDING PRODUCTS

**Galintel** stocks and supplies an extensive range of heavy duty retaining wall steel posts, hot-dip galvanised to AS/NZS4680 to ensure durability.

### Building Approval & Certification

For retaining walls up to 1m high, local authorities generally do not require building approval or engineering certification. Retaining walls within 1.0m of a building or adjoining property, irrespective of height, will generally require local council approval and engineering certification.

It is recommended that you check with local authorities prior to commencement. Special designs may also be required depending on wall height, post spacing, slope steepness or soil conditions. Retaining walls may also be required to be battered back from the vertical (leans back into the bank).

### Materials

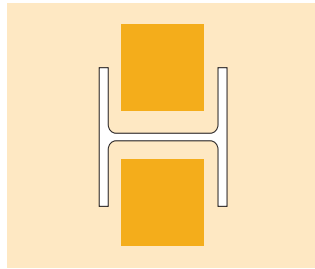
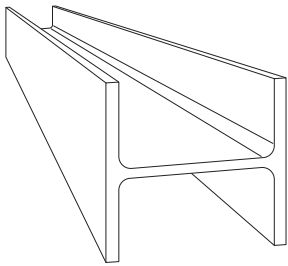
All steel posts are hot-dip galvanised to AS/NZS4680. Minimum concrete grade in post hole to be 25MPa. For simplicity, this guide is based on installing a 1m high wall with 200 x 75 x 1800mm timber sleepers.

Adequate drainage is critical to avoid water retention. Drainage ag-pipe, geotextile nonwoven fabric, waterproof plastic membrane and gravel shall be installed to the rear of the retaining wall. Draining shall be installed in accordance with AS/NZS3500 Plumbing & Drainage and other relevant codes and guidelines.

# RETAINING WALL POSTS

## 100MM SERIES TO SUIT 50 & 75MM SLEEPERS\*

### H-Section joiner for straight runs



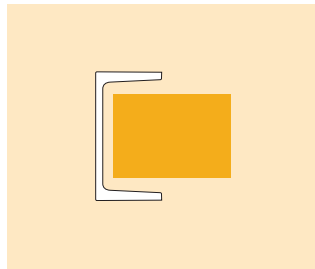
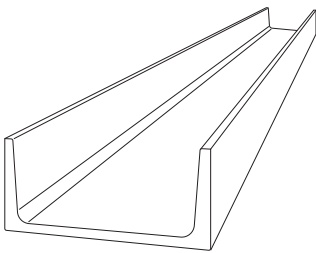
**Available range:**

	0.9m	1.2m	1.5m	1.8m	2.1m	2.4m	2.7m	3.0m
H-Section	✓	✓	✓	✓	✓	✓	✓	✓

**Steel weight guide:** 17kg/m

Other lengths are available upon request.

### C-Section joiner for ends



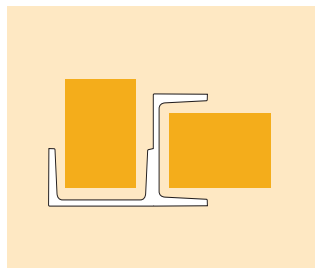
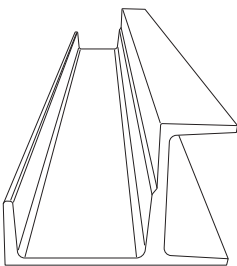
**Available range:**

	0.9m	1.2m	1.5m	1.8m	2.1m	2.4m	2.7m	3.0m
C-Section	✓	✓	✓	✓	✓	✓	✓	✓

**Steel weight guide:** 10kg/m

Other lengths are available upon request.

### Angle section joiner for 90° turns



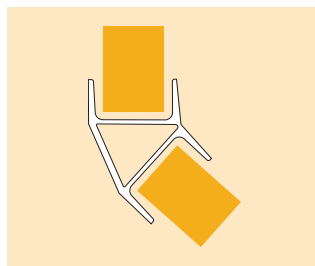
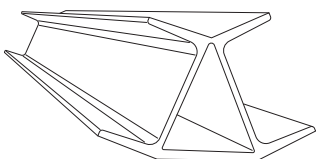
**Available range:**

	0.9m	1.2m	1.5m	1.8m	2.1m	2.4m	2.7m	3.0m
90° Joiner	✓	✓	✓	✓	✓	✓	✓	✓

**Steel weight guide:** 20kg/m

Other lengths are available upon request.

### Angle section joiner for 45° turns



**Available range:**

	0.9m	1.2m	1.5m	1.8m	2.1m	2.4m	2.7m	3.0m
45° Joiner	✓	✓	✓	✓	✓	✓	✓	✓

**Steel weight guide:** 25kg/m

Other lengths are available upon request.

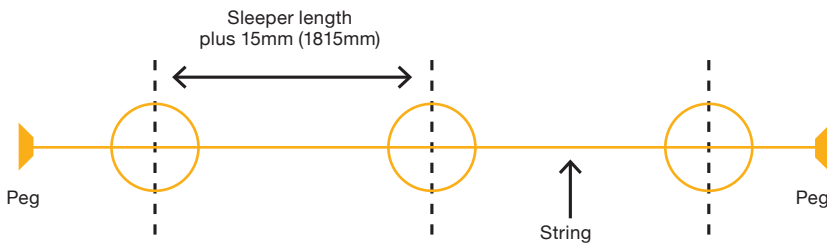
# ASSEMBLY AND INSTALLATION



# ASSEMBLY AND INSTALLATION

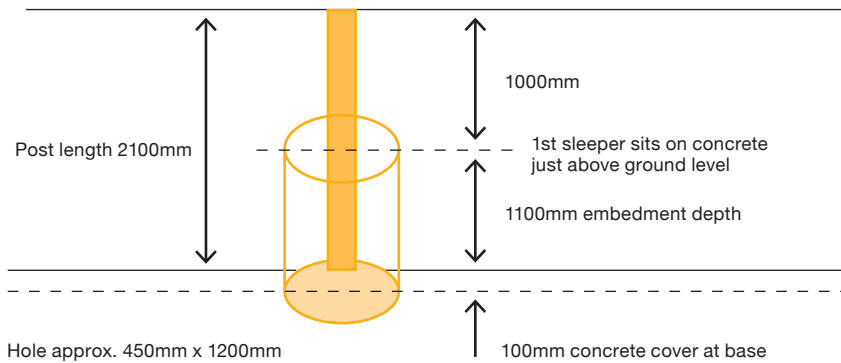
## STEP 1: Setup

Use a string line to ensure correct alignment and set pegs about 500mm from the ends of the retaining wall.



## STEP 2: Post Holes

The post holes into which the retaining wall posts will be placed shall be 450mm diameter with minimum 100mm concrete cover below the post. Footing depth is typically equal to the height of the retaining wall. For this example, therefore, the post hole is 1200mm.



## STEP 3: Alignment & Concrete

Once the holes are ready, place post and align with a spirit level. Fix a timber guide rail along the string line to ensure the concrete levels are all equal. The timber rail guide can also be used to stabilise the retaining wall post during concrete pouring.

Pour concrete into holes and level.



### STEP 4: Installing Sleepers

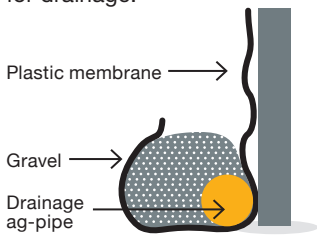
After the concrete has cured, place the first sleeper and check alignment. Packing material may be required to ensure the sleeper is level. The first sleeper rests on the concrete surface slightly above ground level.

The remaining sleepers can now be added.



### STEP 5: Drainage & Backfill

Place geotextile nonwoven fabric or a plastic waterproof membrane material behind the retaining wall. Position the ag-pipe at the bottom of the wall and fill with gravel to approx. 300mm deep to allow for drainage.



### STEP 6: Caution

Although timber sleepers are designed to retain the soil load behind the wall, they are not designed to take extra loads due to placement of machinery or heavy equipment directly behind the wall. It is recommended that no additional loads be placed within 1m of the wall edge.

NOTE: The information in this publication is provided for use as a GUIDE ONLY. Except to the extent that responsibility cannot lawfully be excluded, NEPEAN Building & Infrastructure ("NB&I") does not accept responsibility for any loss or damage of any kind however arising in connection with the selection and use of Galintel® Retaining Wall Posts. NB&I recommends that local council building requirements and professional advice be sought in the selection and use of Galintel® Retaining Wall Post.

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